

on driftwood and among aquatic plants such as *Zizania* and *Utricularia*. At Minaki it inhabits the rocky shores of a quiet backwater of the Winnipeg River, while in Lake Brereton and Mud Turtle Lake it is to be found on shores of smooth rock which are more or less subject to wave action. Beds of wild rice (*Zizania*) such as are found in Snake and the Whiteshell Lakes usually afford excellent habitats. In general the abundance of this snail in the region of the northern coniferous forest stands in striking contrast to its complete absence (within the area covered) from the forest-grassland transition and plains regions. As has been noted above, it also appears to be absent from the Barren Ground.

NEW PHILIPPINE ISLAND LAND SHELLS

BY MAXWELL SMITH

RHYSOTA LAMARCKIANA Lea *GLOBOSA*, new subspecies. Pl. 4, fig. 10.

Spire more produced than in the type, nuclear whorls similar but others more rounded, suture well impressed, peripheral keel less acute with a light zone above, band below much narrower, spiral growth lines becoming inconspicuous upon the last whorl, brownish green color below. Alt. 29.5 mm., diameter 48.5 mm.

Habitat: Passi, Iloilo, Panay. "On leaves of bamboo shaded by buri palms along salty river called Taolong in Visayan dialect."

This distinct geographical race is easily separated by the high spire and unusual sculpture. Type in the writer's collection.

CAMAENA AMATANGANA, new species. Pl. 4, fig. 9.

Shell thin, pupiform, umbilicated, suture moderately impressed, yellow brown except for light yellow zone below the periphery forming a band which is also apparent upon the lower portion of the previous whorl adjoining the suture,

also within and adjacent to the umbilicus; whorls 6, the last elongated; surface sculptured with distinct irregularly spaced oblique riblets, broken principally below by moderately impressed malleations; aperture slightly oblique, lip reflexed, tinged with brown. Alt. 27 mm., diameter 23 mm.; aperture alt. 15.5 mm.

Habitat: Amatang, N. W. Coast of Mindoro. A small series of dead specimens from Camorong, Abra de Ilog show a light yellow brown surface with brown band at the periphery.

Type in the Paul McGinty collection.

This form connects *C. arata* Sowb. with *C. oomorpha* Sowb. From the former the small size, large aperture, fine riblets and presence of malleations distinguish it. The 6 whorls, riblets and less impressed suture separate it from the latter.

CAMAENA OOMORPHA DEMESANA, new subspecies. Pl. 4, fig. 7.

A light yellow form without bands. Alt. 26.5 mm., greater diameter 17.5 mm., aperture alt. 13.5 mm.

Habitat: Tara, Abra de Ilog, Mindoro.

I take pleasure in associating with this form the name of its discoverer Pedro de Mesa. Type in the Paul McGinty collection.

HELICOSTYLA MCGINTYI, new species. Pl. 4, figs. 1, 2.

Shell umbilicate, crevice beneath the broad columellar lip moderately impressed, elongated-ovate; surface straw yellow below, dark red brown above the periphery with darkest zone near suture, surface streaked above with yellow irregular stripes, shining; whorls 7, body whorl with two or more distinct slightly impressed transverse lines, the intersecting growth lines having the tendency to extend backward, these lines also present on other whorls; aperture almost one-half length of shell, interior bluish white, callus lacking upon parietal wall but extremities of peristome joined by an extremely narrow indistinct brown line; peristome strongly

reflexed close to its junction with wall above umbilicus. Alt. 57.5 mm., aperture alt. 28.5 mm.

This form fits perfectly between *H. chrysalidiformis* Sowb. and *H. mindoroensis* Brod. In common with the former it possesses the hydrophanous light patches, blunt apex and similar suture but exhibits in the aperture a totally different ratio with respect to length of shell and also in its peculiar sculpture. From *H. mindoroensis* the shining surface and more cylindrical form readily distinguish it.

Habitat: Amatang, N. W. Mindoro.

The type is in the Paul McGinty collection, Detroit, Mich.

HELICOSTYLA CHRYSALIDIFORMIS Sowb. CALAWAGANENSIS, new subspecies. Pl. 4, figs. 4, 6.

Surface flesh color, darker upon the earlier whorls, lip broadly expanded and strongly subreflexed, bordered outside with reddish brown shading to rose within, hydrophanous streaks straw yellow, apex white, slightly angular at the periphery. Alt. 49.5 mm., aperture alt. 44.5 mm., some examples considerably larger.

Habitat: Calawagan, N. W. Mindoro.

Type in the writer's collection.

This race approximates *v. antoni* Semper, which also occurs in the same region, but justifies recognition on account of the totally different color of both surface and aperture.

HELICOSTYLA PITHOGASTER Fer. BATOANA, new subspecies. Pl. 4, fig. 3.

Three apical whorls pale yellow, shining, the following yellow brown, also shining, the last two and one-half dark reddish brown, covered almost entirely with an evenly distributed olive slate colored hydrophanous cuticle. A distinct narrow dark band appears shortly below the suture upon the last two whorls formed by the absence of the cuticle. Upon the earlier whorls this sutural uncovered zone naturally agrees with the different ground color. Whorls $6\frac{1}{4}$; aperture bluish white within with rose brown columella, callus

partially covering the parietal wall. Alt. 62 mm., greater diameter 42 mm., aperture alt. 32 mm.

Habitat: Bato Municipality, Catanduanes.

Type in the writer's collection.

HELICOSTYLA TURBINOIDES Brod. SULANA, new subspecies.

Pl. 4, fig. 5.

Five distinct colors usually occur upon this form, the apical whorls flesh color, the succeeding one red, the following light olive green with occasional indistinct streaks of a lighter shade. A long series of this race shows considerable variation with some abnormal contracted forms. In the type, illustrated, most of the silvery hydrophanous bands are present upon the body whorl, a broad one below the suture, with nine more or less distinct bands below. Alt. 74.5 mm., greater diameter 60 mm., aperture alt. 49 mm.

Habitat: Sula Mountains, Bato Municipality, Catanduanes.

Type in the writer's collection.

A NEW MINDORO LAND SHELL

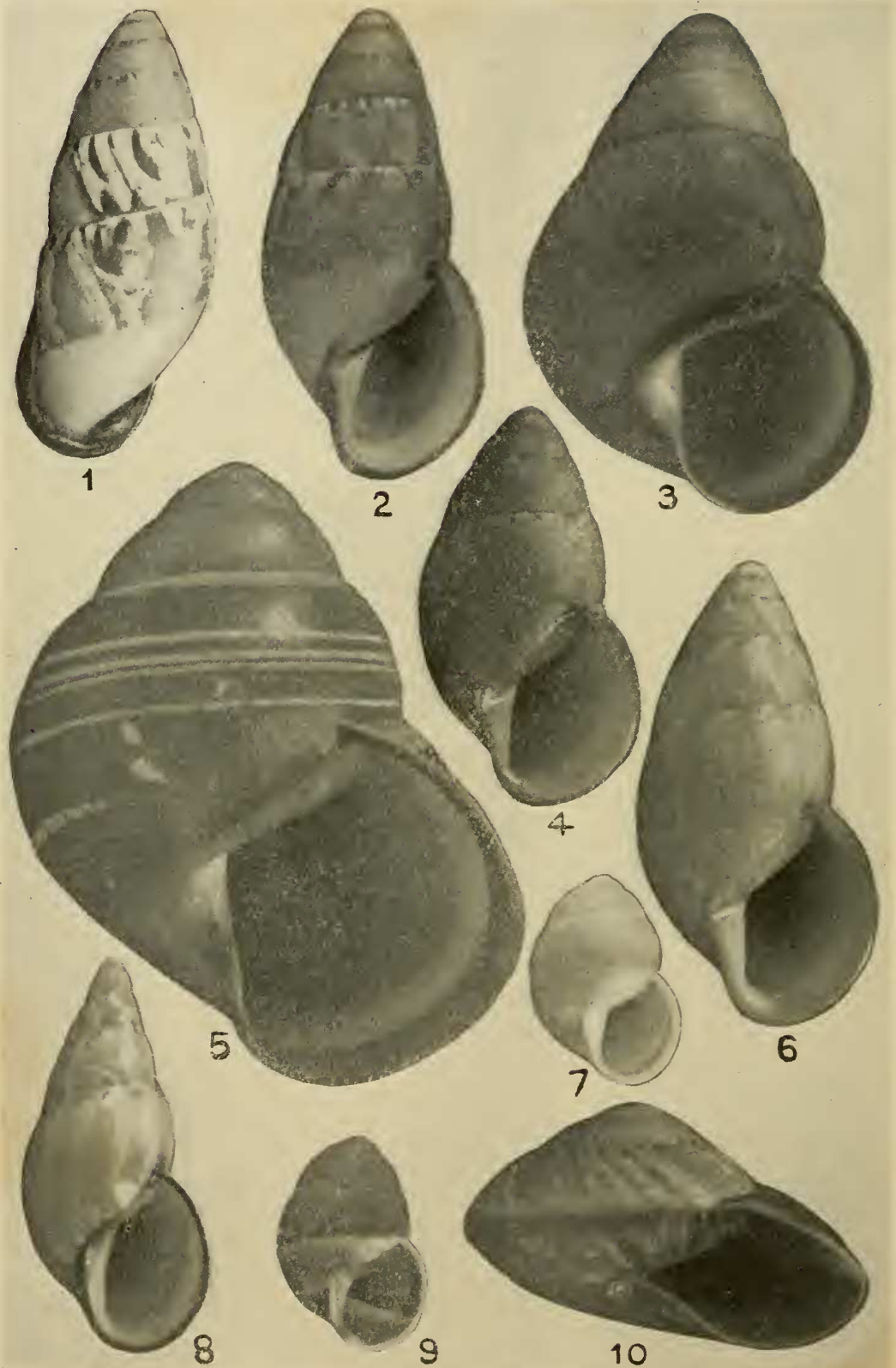
BY THOMAS L. MCGINTY

HELICOSTYLA VIRGATA MAXWELLSMITHI, new subspecies.

Pl. 4, fig. 8.

Spire slender; early whorls white, ground color cream with light brown band below the suture, similar dark color extending parallel to and outside the peristome and above the umbilical area; lip very broadly expanded, narrowly edged both inside and out with dark chocolate brown, extremities of peristome joined with band of same color; surface variegated with oblique stripes of *silvery white hydrophanous cuticle* with the same color upon the exterior of the lip.

This exceedingly beautiful form was collected at Buleran, Naujan, Mindoro. Type in the collection of Maxwell Smith, Lantana, Florida; holotypes in the Paul P. McGinty collection, Detroit, Mich.



1, 2, *Helicostyla mcgintyi* Sm. 3, *H. pithogaster batoana* Sm. 4, 6, *H. calawaganensis* Sm. 5, *H. t. sulana* Sm. 7, *Camæna oomorpha demesana* Sm. 8, *Helicostyla virgata maxwellsmithi* McGinty. 9, *Camæna amatan-gana* Sm. 10, *Rhysota l. globosa* Sm.